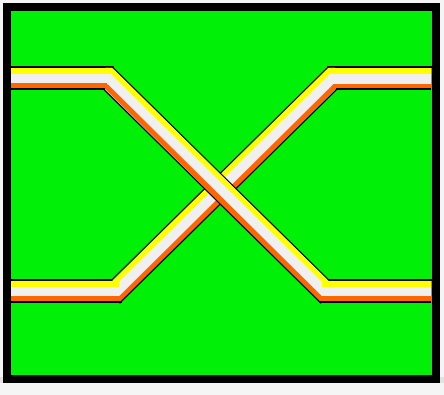
Enterasys Vertical Horizon Suite



Supports Management Module SM-ENT1004

APRISMA SPECTRUM® POWERED SOLUTIONS

Device Management

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Contact Information

Aprisma Management Technologies, Inc.
273 Corporate Drive
Portsmouth, NH 03801

Phone:	603-334-2100
U.S. toll-free:	877-468-1448
Web site:	http://www.aprisma.com

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Introduction

This section introduces the SPECTRUM Device Management documentation for the Vertical Horizon series of switches manufactured by Enterasys.

This introduction contains the following topics:

- *Purpose and Scope*
- *Required Reading*
- *Supported Devices* (Page 5)
- *The SPECTRUM Model* (Page 6)

Purpose and Scope

Use this document as a guide for managing the Enterasys devices described on Page 5 with SPECTRUM management module SM-ENT1004. This document describes the icons, menus, and views that enable you to remotely monitor, configure, and troubleshoot Enterasys devices through software models in your SPECTRUM database.

Information specific to SM-ENT1004 is what is primarily included in this document. For general information about device management using SPECTRUM and explanations of SPECTRUM functionality and navigation techniques, refer to the topics listed under *Required Reading*.

Required Reading

To use this documentation effectively, you must be familiar with the information covered by the other SPECTRUM online documents listed below.

- ***Getting Started with SPECTRUM for Operators***
- ***Getting Started with SPECTRUM for Administrators***
- ***How to Manage Your Network with SPECTRUM***
- ***SPECTRUM Views***
- ***SPECTRUM Menus***
- ***SPECTRUM Icons***
- ***SPECTRUM Software Release Notice***

Supported Devices

SPECTRUM management module SM-ENT1004 currently lets you model the Enterasys Vertical Horizon (formerly SmartSTACK) suite of switches. These are high performance switches that offer high-speed uplinks, RMON support, port trunking and port monitoring. There are four different models of the Vertical Horizon switches, as described below.

VH-4802

The Vertical Horizon VH-4802 provides 48 RJ45 ports of wire-speed 10/100Base-TX connectivity and two option slots for modular 100Base-FX and 1000Base-X uplinks.

VH-2402S/ELS100-S24TX2M

The Vertical Horizon VH-2402S provides 24 10/100 Mbps RJ45 ports and two option slots for expansion, as well as a dedicated management slot. The ELS100-S24TX2M is a pre-Vertical Horizon version of the VH-2402S device.

VH-8G

The Vertical Horizon VH-8G is an 8 port Gigabit Ethernet standalone workgroup switch suitable for supporting network-intensive applications and high-volume file transfers.

VH-8TX1UM

The Vertical Horizon VH-8TX1UM is an 8 port, 10/100 Mbps wire-speed switch.

The SPECTRUM Model

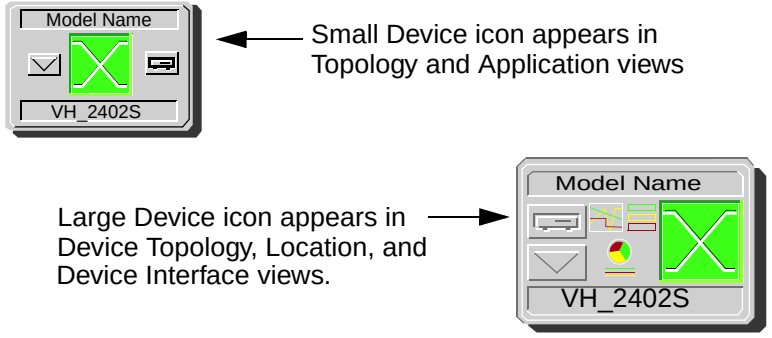
The model type for the Vertical Horizon devices is VH_Switch. The Device Type shown on the modeled device's device icon will reflect the actual device being modeled, as shown in Figure 1.

Modeling results in the creation of Device icons that represent the devices and Application icons that represent their supported applications.

The Device icons contain double-click zones and provide access to Icon Subviews menus that let you perform device management activities.

As Figure 1 shows, the appearance of the Device icons varies slightly depending on the kind of view it appears in.

Figure 1: Device Icons


Model Name
VH_2402S
Small Device icon appears in Topology and Application views
Large Device icon appears in Device Topology, Location, and Device Interface views.
Model Name
VH_2402S

The device-specific Icon Subviews menu options available from the Device icon are listed below.

Option	Accesses the...
Device	*Device View* (Page 8)
Device Topology	*Device Topology View* (Page 12)
Application	*Application Views* (Page 13)
Configuration	*Configuration Views* (Page 23)
Model Information	*Model Information View* (Page 25)
Primary Application	Menu options that let you select either Routing, IP Routing, Gen Bridge App, MIB-II or an Ethernet App as the primary application.
NetSight Element Manager	*NetSight Element Manager* (Page 26)

The rest of this document covering the Enterasys Vertical Horizon Suite management module is organized as follows.

- *Device View* (Page 8)
- *Device Topology View* (Page 12)
- *Application Views* (Page 13)
- *Performance Views* (Page 21)
- *Configuration Views* (Page 23)
- *Model Information View* (Page 25)
- *NetSight Element Manager* (Page 26)

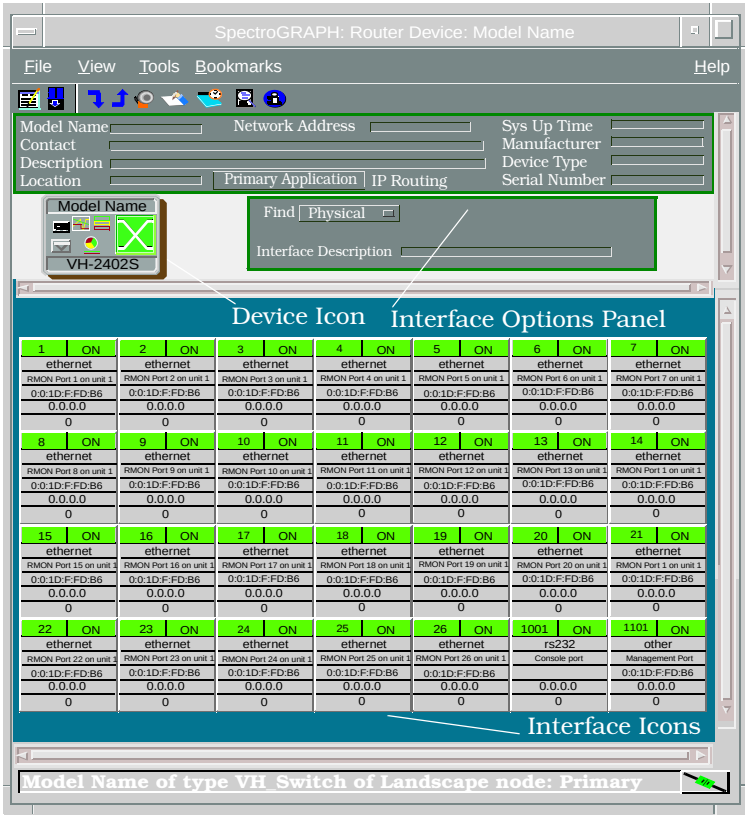
Device View

This section describes the Device view and subviews available for models of Enterasys Vertical Horizon devices in SPECTRUM.

Access: *From the* ***Icon Subviews*** *menu for the Device icon, select* ***Device > Interface****.*

This view (Figure 2) uses icons and labels to represent the device and its components, such as modules, ports, and applications. The view provides dynamic configuration and performance information for each of the device's serial and network I/O ports, which are represented by Interface icons in the bottom panel of the view. The middle panel of the view displays a Device icon, which lets you monitor the device operation and access other device-specific views.

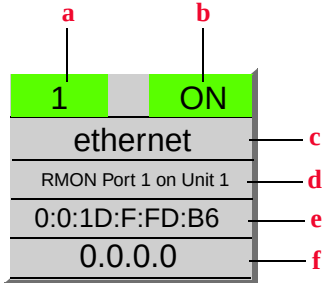
Figure 2: Device View



Interface Icons

Figure 3 shows a close-up of an Interface icon from the Device view. Most of the informational labels on the icon also provide double-click access to other views, as explained in the following label descriptions.

Figure 3: Interface Icon



- **a** *Interface Number Label*
- **b** *IF Status Label*
- **c** *Interface Type Label*
- **d** *Network Type Label*
- **e** *Physical Address Label*
- **f** *IP Address Label*

Interface Number Label

This label displays the interface (port) number.

IF Status Label

This label displays the current status of the interface for the primary application selected, e.g., Gen Rtr App or MIB-II App. Table 1 lists the possible label color representations. Note that the color of the label also depends on the interface's current Administrative Status, which you set in the *Interface Status View* (Page 11). This view can be accessed by double-clicking the label.

Table 1: Interface Status Label Colors

Color	Operational Status	Administrative Status	Label Text
Green	up	up	ON
Blue	down	down	OFF
Yellow	down	up	OFF
Red	testing	testing	TEST

Interface Type Label

This label identifies the interface type (Ethernet, ATM, etc.). Double-click this label to access the *Interface Configuration View* (Page 24).

Network Type Label

This label identifies the type of network to which the interface is connected. Double-click the label to open the Model Information view for the interface.

Physical Address Label

This label displays the physical (MAC) address of the interface. Double-click this label to open the IF Address Translation Table.

IP Address Label

This label displays the IP address for the interface. Double-click this label to open the *Secondary Address Panel* (Page 11), which lets you change the address and mask for the interface.

Interface Icon Subviews Menu

Table 2 lists the device-specific interface Icon Subviews menu options and the views to which they provide access.

Table 2: Interface Icon Subviews Menu

Option	Accesses the...
Detail	Interface Detail view, which displays packet, error, and discard breakdown statistics for the interface.
IF Status	*Interface Status View* (Page 11).
IF Configuration	*Interface Configuration View* (Page 24).
IF Address Translation Table	Interface Address Translation Table, which identifies the physical and network address for the interface.
Secondary Address Panel	*Secondary Address Panel* (Page 11).
Thresholds	Interface Threshold view, which lets you set the on/off alarm thresholds for load, packet rate, error rate, and % discarded for the interface.
Model Information	*Model Information View* (Page 25).

Interface Status View

Access: *From the **Icon Subviews** menu for the Interface icon in the Device view, select **IF Status**.*

This view provides information on the operational status of the interface and allows you to enable or disable the port.

Operational Status
The current state of the interface (`Up`, `Down`, `Unknown`, `Dormant`, `Not Present`, `Lower Layer Down`, or `Testing`).

Administrative Status

This button allows you to select the desired administrative state of the interface (`On`, `Off`, or `Testing`).

Secondary Address Panel

Access: *From the **Icon Subviews** menu for the Interface icon in the Device view, select **Secondary Address Panel**.*

This panel provides a table of IP addresses and masks obtained from the Address Translation table within the device's firmware. You can change the current address displayed in the **IP Address** field by selecting an entry from the table in this panel and clicking the **Update** button.

Device Topology View

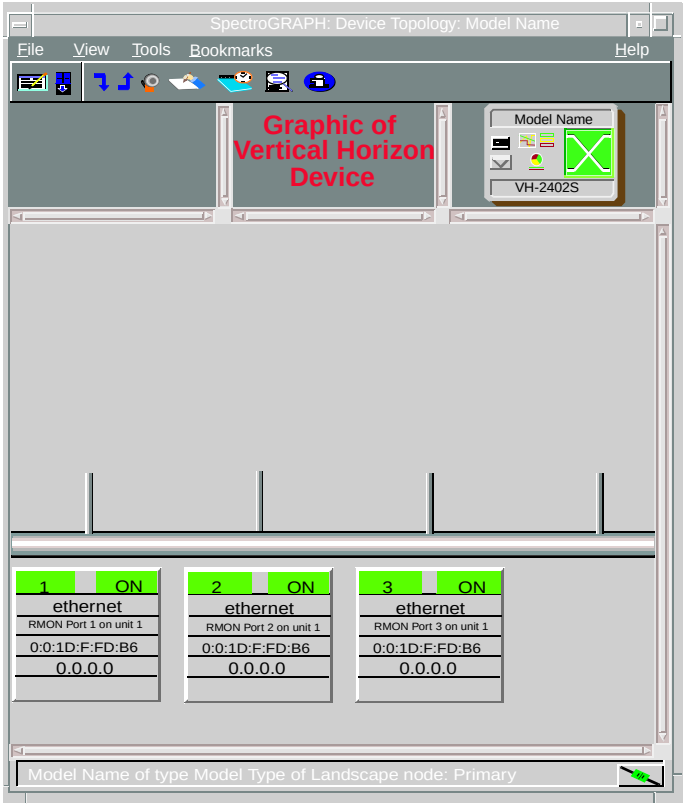
This section describes the Device Topology view available for models of the Enterasys Vertical Horizon devices.

Access: *From the* ***Icon Subviews*** *menu for the Device icon, select* ***Device Topology****.*

The Device Topology view (Figure 4) shows the connections between a modeled device and other network entities. The lower panel of the view uses Interface icons to represent the device's serial, network, and I/O ports. These icons provide the same information and menu options as those in the *Device View* (Page 8). If a device is connected to a particular interface, a Device icon appears on the vertical bar above the Interface icon along with an icon representing the network group that contains the device.

Refer to the ***SPECTRUM Views*** documentation for details on Device Topology view.

Figure 4: Device Topology View



Application Views

This section describes the main Application view and the associated application-specific subviews available for models of Enterasys Vertical Horizon devices in SPECTRUM.

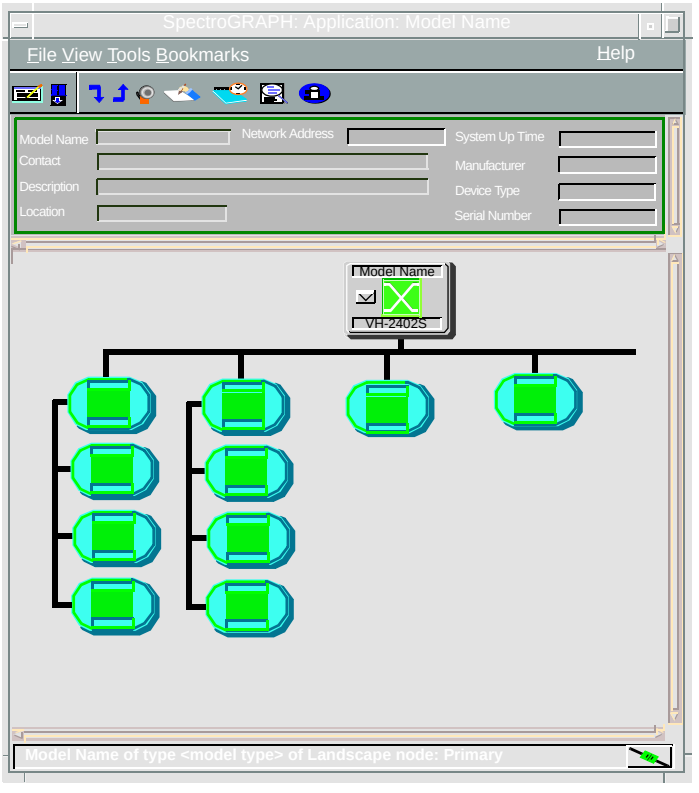
Access: *From the **Icon Subviews** menu for the Device icon, select **Application**.*

Main Application View

When a device model is created, SPECTRUM automatically creates models for each of the major and minor applications supported by the device. The main Application view identifies all of these application models, shows their current condition status, and provides access to application-specific subviews. Figure 5 shows this view in the Icon mode. If you prefer the List mode, which displays applications as text labels, select **View > Mode > List**.

For more information on this view, refer to the ***MIBs and the Application View*** documentation.

Figure 5: Main Application View



Supported Applications

SPECTRUM's applications can be grouped within two general categories as follows:

- *Common Applications*, below
- *Device-Specific Applications* (Page 15)

Common Applications

For the most part, these applications represent the non proprietary MIBs supported by your device. Listed below (beneath the title of the document that describes them) are some of the common applications currently supported by SPECTRUM.

Note: The documents listed are available for viewing at: www.aprisma.com/manuals/

- ***Routing Applications***
  - Generic Routing
  - Repeater
  - AppleTalk
  - DECnet
  - OSPF
  - OSPF2
  - BGP4
  - VRRP
- ***Bridging Applications***
  - Ethernet Special Database
  - Spanning Tree
  - Static
  - Transparent
  - PPP Bridging
  - Source Routing
  - Translation
  - QBridge
- ***MIB II Applications***
  - SNMP
  - IP
  - ICMP
  - TCP
  - System2
  - UDP
- ***Transmission Applications***
  - FDDI
  - Point to Point
  - DS1
  - DS3
  - RS-232
  - WAN
  - Frame Relay

- Token Ring
- Ethernet
- Fast Ethernet
- rfc1317App
- rfc1285App
- rfc1315App
- 802.11App
- SONET

- ***Technology Applications***
  - APPN
  - ATM Client
  - DHCP
  - PNNI
  - rfc1316App
  - DLSw

Device-Specific Applications

The Enterasys Vertical Horizon devices do not currently support any device-specific applications. The ELS100-24TX series of devices support a single device-specific application, **ELS100_TxApp**, described in the rest of this section.

ELS100-24 Application (ELS100_TxApp)

This application has the following application-specific subviews:

- *System Information View* (Page 16)
- *Switch Manager View* (Page 17)
- *Port Table Information View* (Page 17)
- *VLAN Table Information View* (Page 18)
- *Port Mirror Configuration View* (Page 19)
- *VLAN Port Table Information View* (Page 20)
- *Port Priority Table Information View* (Page 20)

System Information View

Access: *From the **Icon Subviews** menu for the Application icon, select **System Information.***

This view provides system-level configuration information.

Sys Serial no
The serial number of the system.

Tftp IP Address
The IP address of the TFTP server from which a software download is to be initiated. This variable must be set before a TFTP download can be started.

Tftp Filename
The name of the software upgrade file residing on the TFTP server. Path information must be included in the file name. This variable must be set before a TFTP download can be started.

Brcast Cutoff Rate
The Broadcast Cutoff Rate of the switch controlling broadcast storms. The value of this variable sets a per second rate. If the broadcast and unknown destination address frames being forwarded through the system surpass this rate, they are dropped. Valid values for this parameter are in the range (100 to 500000).

Switch IP Address
The IP address of the ELS device.

Switch Subnet Mask
The subnet mask associated with the IP address of the system.

Gateway IP Address
The IP address of the next hop router (gateway) to which frames destined for an IP subnet are sent.

Tftp Start Download
Start a TFTP download. A SET of this variable with the value download initiates a TFTP download to upgrade the system software. The variables TFTP IP Address and TFTP Filename must be configured before a download can begin. A GET of this variable will always return the value noDownload.

BootP Dhcp Enabled
Enable or disable the operation of the BootP and DHCP protocols on the system. These protocols are used for automatically configuring the system's IP address information if a properly configured BootP and/or DHCP server exists on the network.

System Reset
Initiates a software reset of the system. Values are Reset or noReset.

Powerup Count
The total number of times the system has powered up since manufacture.

Switch Manager View

Access: *From the **Icon Subviews** menu for the Application icon, select **Switch Manager.***

This view provides trap information for the four SNMP managers on this system.

Trap Rcvr (#1,2,3,4)
The IP address for each of the four SNMP managers to which traps are sent.

Trap Community (#1,2,3,4)
The community name for each of the four SNMP managers to which traps are sent. The default value is public.

Port Table Information View

Access: *From the **Icon Subviews** menu for the Application icon, select **Port Information.***

This view shows a table with traffic information for each of the ports on the system.

Port
The number of the port, from 1 to the number of ports on the system.

Port Status
The connection, or link, status of the port, either up (linked) or down (not linked).

Duplex Status
The duplex status of the port. The values are `half or full duplex`.

Forwarded Frames
The number of frames received on this port and forwarded to another port on the system module.

Rcvd Local Frames
The number of frames received on this port.

Port Name
A descriptive string of up to 60 characters used by the network administrator to name the port.

Port Enable
Status of the port; values are `Enable` or `Disable`.

Port Speed
The operating speed for this port. Values are: `ten Mbps` or `one hundred Mbps`.

Autoneg Enable
The auto-negotiation status of the port (`Enable` or `Disable`). When enabled, the port automatically configures its duplex and speed operation.

Flow Control Enable
The state of flow control operation for this port. Flow Control allows you to manage network traffic during congestion periods and to prevent loss of packets when the port buffer thresholds are exceeded. Values are `Enable` or `Disable`.

Port Type
The port physical interface types are, listed below.

ieee100BaseTx
ieee100BaseFx-MMF
ieee100BaseFx-SMF
ieee1000BaseCx
ieee1000BaseLx
ieee1000BaseSx
ieee1000BaseT

ElsInOctets
Incoming traffic on this port, measured in octets.

VLAN Table Information View

Access: *From the **Icon Subviews** menu for the Application icon, select **VLAN Information.***

The VLAN Table Information view shows the VLAN table, which is indexed by VLANs.

Vlan Id
The number of the VLAN, from 1 to the number of VLANs supported on the system.

Vlan Name
A descriptive string of up to 60 characters used by the network administrator to name the VLAN.

Vlan Ports
The set of ports in the VLAN. For systems supporting tagged VLAN's, these are the ports to which packets on the VLAN are sent untagged.

Vlan Egress Ports
The set of ports on other VLANs, to which tagged packets destined for this specific VLAN should also be sent.

Vlan Status
Control variable used to enable or disable the operation of the associated VLAN in the system.

Switch Vlan Enable
Globally `Enable` or `Disable` the VLAN operation of the system.

Switch STP Status
Enables or disables the mirroring of transmitted traffic out the mirrored port to the mirroring port. Values are `On or Off`.

Port Mirror Configuration View

Access: *From the **Icon Subviews** menu for the Application icon, select **Port Mirror Configuration.***

This view allows you to configure one port to monitor, or mirror, traffic on another active port. You can only “watch” this traffic from the mirroring port.

Rcv Mirror Enable

Enable or disable the mirroring of received traffic. Once this field is enabled, you can monitor mirrored port traffic on the mirroring port.

Mirroring Port

The selected port that is mirroring another port.

Xmit Mirror Enable

`Enable` or `Disable` the mirroring of transmitted traffic out the mirrored port to the mirroring port.

Port Mirroring Status

The Port Mirroring status of the system. Values are `Enable` or `Disable`.

Mirrored Port

The port, or source, that is being mirrored.

VLAN Port Table Information View

Access: *From the **Icon Subviews** menu for the Application icon, select **VLAN Port Information.***

Vlan PortId
The VLAN port number, from 1 to the number of ports in the system.

Vlan Pvid
The port's VLAN ID. For tagged VLANs, this variable defines a 12 bit port VLAN ID (PVID) used as the identifier of the VLAN in the packet tag.

Vlan Port Type
For tagged VLANs or VLAN port type, either `hybrid` or `access`. Hybrid ports allow both tagged and untagged packets to enter the switch. Access ports only accept untagged packets.

Port Priority Table Information View

Access: *From the **Icon Subviews** menu for the Application icon, select **Port Priority Information.***

This view contains a table that shows priority level (0 to 7) each port assigns to untagged traffic.

Performance Views

This section provides brief descriptions of the Performance views available for the Enterasys Vertical Horizon devices in SPECTRUM.

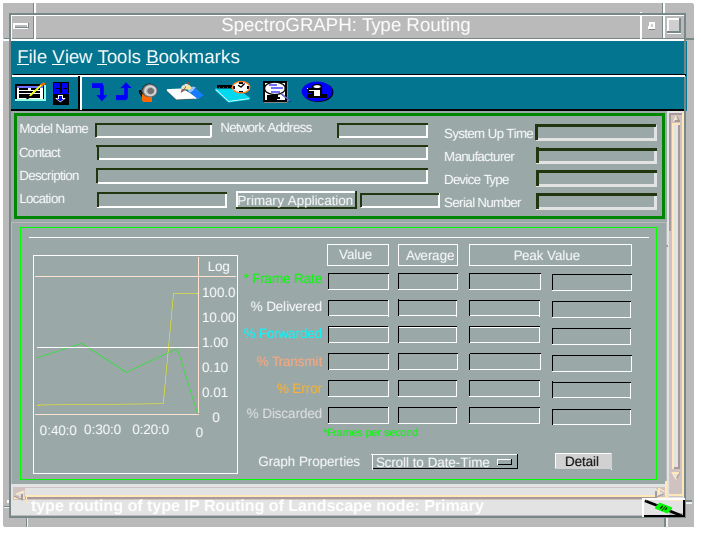
Performance views display performance statistics in terms of a set of transmission attributes, e.g., cell rates, frame rates, % error, etc. A typical view is shown in Figure 6. The instantaneous condition of each transmission attribute is recorded in a graph. The statistical information for each attribute is presented in the adjacent table.

Generally, you determine performance at the device level through Performance views accessed from the Device and Application icons. You determine performance at the port/interface level through Performance views accessed from Interface icons.

For more information on Performance views, refer to the ***SPECTRUM Views*** documentation.

The following paragraphs list the performance attributes displayed for each Performance view supported by this management module.

Figure 6: Performance View



Device Performance View

Access: *From the **Icon Subviews** menu for the Device icon, select **Performance**.*

Current and historical frame transmission information is provided via the following attributes.

- Frame Rate
- % Delivered
- % Forwarded
- % Transmit
- % Error
- % Discarded

Port Performance View

Access: *From the **Icon Subviews** menu for the Device Interface icon, select **Performance**.*

Current and historical packet transmission information is provided via the following attributes.

- Load
- Packet Rate
- % Error
- % Discarded

Configuration Views

This section describes the various Configuration views available for models of the Enterasys Vertical Horizon devices in SPECTRUM.

Configuration views let you view and modify current settings for the modeled device and its interfaces, ports, and applications. The following Configuration views are available for models of Enterasys Vertical Horizon devices:

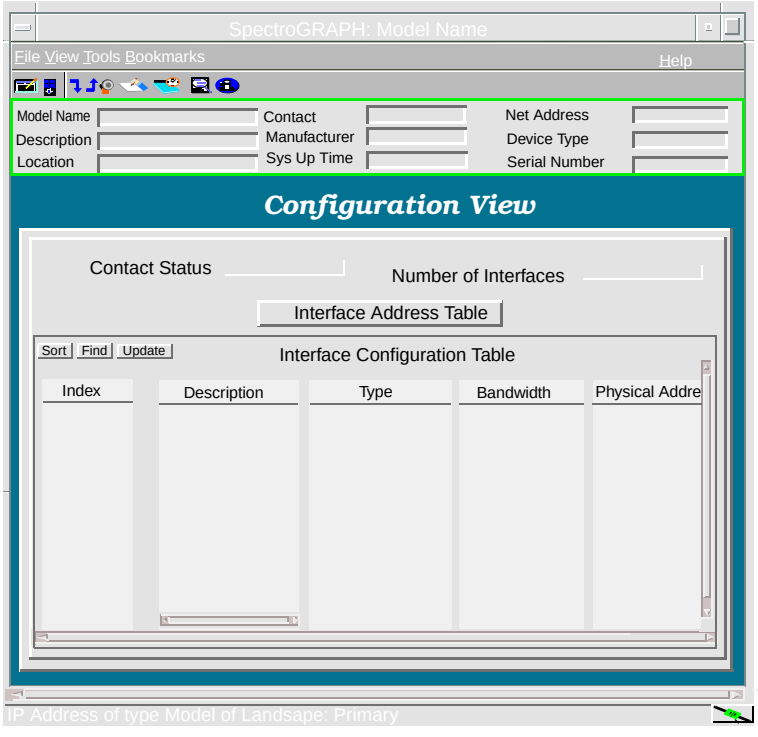
- *Device Configuration View* (Page 23)
- *Interface Configuration View* (Page 24)
- *Generic Interface Trap Configuration View* (Page 24)

Device Configuration View

Access: *From the* ***Icon Subviews*** *menu for the Device icon, select* ***Configuration****.*

This view (Figure 7) provides status and configuration information about the device as a whole as well as on a port-by-port basis. Fields and column headings within the Device Configuration view and its subviews are explained in detail in the ***SPECTRUM Views*** documentation.

Figure 7: Device Configuration View



Interface Configuration View

Access: *From the **Icon Subviews** menu for an Interface icon in the Device view, select **IF Configuration**.*

This view provides the following information for the selected interface:

Index
Indicatates which device is being examined.

Operation Status
The current operational state of the interface (`Up`, `Down`, `Unknown`, `Dormant`, `Not Present`, or `Lower Layer Down`).

Admin. Status

The desired operational state of the interface (`up`, `down`, or `testing`).

Last Change
The System UpTime value when the interface entered its current operational state.

IP Address/Network Mask
This window provides a list of the user-defined names and IP addresses for the interface.

Physical Address
The Ethernet (MAC) address of the interface.

Bandwidth
The estimated bandwidth of the interface, measured in bits per second. For interfaces that do not vary in bandwidth, or no accurate estimate can be made, a nominal bandwidth is provided.

Packet Size
The largest packet that can be transmitted or received by the port, displayed in octets.

Queue Length
The length of the outbound packet queue, in packets.

Generic Interface Trap Configuration View

Access: *From the **Icon Subviews** menu for an Interface icon in the Device view, select **Model Information.** In the Model Information view, click the **Trap Configuration** button to access the Generic Interface Trap Configuration view.*

This view allows you to enable or disable trap events and set alarms on Link down traps. Click **Button Explanations** for more information.

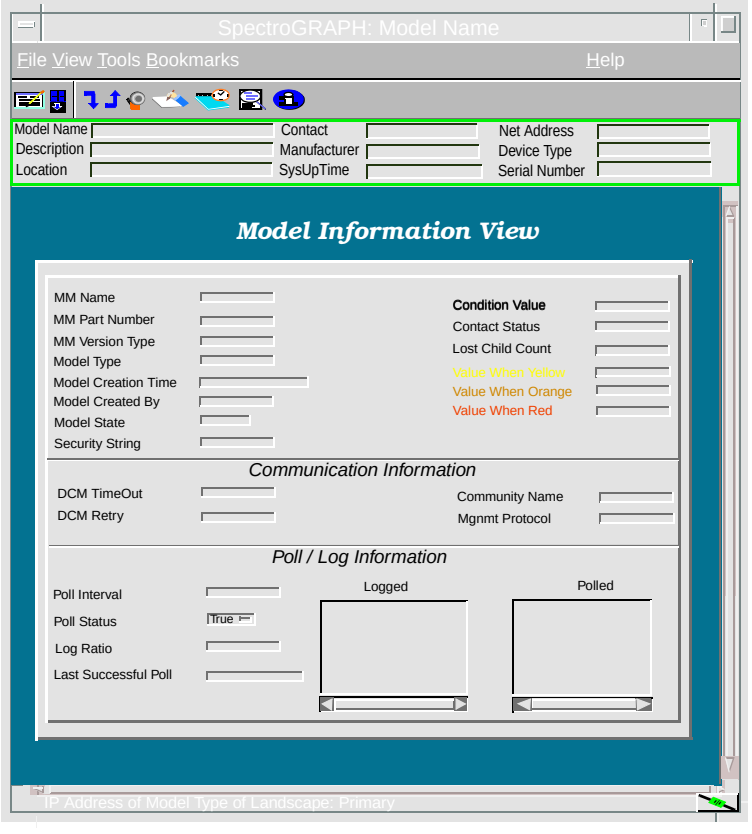
Model Information View

This section provides a brief overview of the Model Information view.

This view displays administrative information about the device and its applications and lets you set thresholds and alarm severity for the device.

Figure 8 shows a sample Model Information view. The layout of this view is the same for all model types in SPECTRUM but some information will vary depending on the model it defines. Refer to the ***SPECTRUM Views*** documentation for a complete description of this view.

Figure 8: Model Information View



NetSight Element Manager

This section explains how to launch the NetSight Element Manager.

Access: *From the Icon Subviews menu for the device icon, select* ***NetSight Element Manager****.*

This menu selection launches the Enterasys NetSight Element Manager application if it is available. In order for SPECTRUM to find Netsight, you must set the `NETSIGHTPATH` environmental variable equal to the path to the NetSight Element Manager application.

When setting the `NETSIGHTPATH` environmental variable, be sure to use the path to the location of the Element Manager executable, not the path to the location of the installation.

For example, if the NetSight Element Manager was installed in a Windows environment in the `Program Files\Enterasys Networks\NetSight Element Manager` directory, the path to the executable would be:

```
C:\Program Files\Enterasys
Networks\NetSight Element Manager\Bin
```

For information on how to set an environmental variable, refer to the documentation for your operating system.

Once you have set the `NETSIGHTPATH` environmental variable, you must restart the SpectroGRAPH and the SPECTRUM Control Panel (if you are using it to launch the SpectroGRAPH) in order for the NetSight Element Manager menu option to become available.

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